Trimble Precision Levels

High quality easy-to-use optical and digital levels

Features and Benefits

- High-quality optical and digital levels for all vertical measuring applications
- Rugged and accurate
- Easy to use

Trimble's range of optical and digital precise levels has every vertical measuring option covered—from general leveling work to precise deformation monitoring projects. Trimble levels are designed for ease of use and productivity.

Trimble AL200 optical levels

The Trimble AL200 series of optical levels consists of two models: the AL228 with 28× magnification and ±1.5 mm accuracy, and the AL232 with 32× magnification and ±1.0 mm accuracy.

Featuring metal housings and high-quality optics, the AL200 series provides the ideal combination of durability and quality. An easy-to-read display makes these optical levels an ideal tool for everyday leveling work. The built-in horizontal circle can be used to turn basic angles and to perform short-range alignments without the need for other instrumentation.

Capable of withstanding the most challenging job site conditions these reliable optical levels will provide many years of unwavering performance.

Trimble DiNi digital levels

Through innovative technology and an easy-to-use interface, the DiNi* digital levels are quick to learn and use productively—saving you time and money. The DiNi family consists of three models: the high-accuracy DiNi 12 and DiNi 12T suitable for precise leveling applications, and the economical DiNi 22 suitable for everyday applications that require the convenience of a digital level.



Accurate levels for engineering and geodetic measurements

With the ability to record measurements in as little as three seconds, efficiency is greatly improved. In addition, the digital reading and recording of data, eliminates human errors—greatly improving data integrity. Distance measuring capability provides a rapid means of balancing foresights and backsights on level runs. This ensures maximum sight distances are not exceeded and provides higher reliability and optimized error distribution.

The menu-driven interface of the DiNi is clearly structured. Combined with the large graphical display and the ergonomic 22 key alphanumeric keyboard it is extremely quick and easy to operate.

Digital flexibility

Due to the terrain and other obstacles it can often be difficult to see enough of the staff to take a reading. With the DiNi this is not an issue, as it needs to 'see' only 30 cm of the staff to make a measurement.

With a DiNi level your data is reliably transferred from the field to the office. The DiNi 12 and the DiNi 12T both use a PC card for data storage and seamless data transfer. The DiNi 22 uses onboard memory. Precise vertical measurements can be transferred to a wide variety of survey and design software packages including all Trimble office software packages. You can forget about data transfer and conversion problems and get on with your job.

Reliability

When you buy an AL200 autolevel or a DiNi digital level you can rely on Trimble's field-proven equipment to increase your productivity and streamline your field operations.

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TECHNICAL SPECIFICATIONS	AL228	AL232	
Height accuracy, standard deviation (DIN 18723)			
1 km two-way leveling	1.5 mm (0.004 ft)	1.0 mm (0.003 ft)	
Telescope magnification	28×	32×	
Field of view	1° 20' (15 mgon)		
Aperture	36 mm (1.4 in)		
Shortest focus	0.6 m (2 ft)		
Compensator	Air dampened		
Instrument dimensions	——130 mm × 190 mm × 135 mm (5.1 in × 7.5 in × 5.3 in) ——		
Weight (instrument only)	1.6 kg (3.5 lb)		

TECHNICAL SPECIFICATIONS	DiNi 12	DINI 12T	DiNi 22	
Height accuracy (electronic measurement), standard deviation (DIN 18723) 1 km two-way leveling Precise leveling rod, coded scale Engineer's folding staff, coded scale	0.3 mm (0.0015 ft) 1.0 mm (0.003 ft)	0.3 mm (0.0015 ft) 1.0 mm (0.003 ft)	0.7 mm (0.002 ft) 1.3 mm (0.004 ft)	
Distance accuracy (electronic measurement) Tacheometer mode (±50 cm staff intercept) Precise leveling rod, coded scale Engineer's folding staff, coded scale Leveling mode (0.3 m staff intercept, range 20 m) Precise leveling rod, coded scale Engineer's folding staff, coded scale	20 mm (0.066 ft) 25 mm (0.082 ft)	0.5 D* × 0.001 m 1.0 D* × 0.001 m 20 mm (0.066 ft) 25 mm (0.082 ft)	25 mm (0.082 ft) 30 mm (0.098 ft)	
Angle accuracy External graduated circle Read to / Estimate to Electronic circle (absolute code) Angular units Standard deviation for one bearing	1°(1 gon) / 0.1°(0.1 gon)	grad / deg.min.sec / deg 6" / 2 mgon	1°(1 gon) / 0.1°(0.1 gon)	
Electronic measuring range	1.5–100 m (5–328 ft)			
Measurement time	3 s	3 s	2 s	
Telescope magnification	32×	32×	26×	
Compensator Tilt range Setting accuracy	±0.2"/±0.06 mgon — ±0.5"/±0.06 mgon —			
Display	Four lines of 21 characters each, graphic capability			
Keyboard	——————————————————————————————————————			
Leveling methods	BF, BFFB, BFBF, BBFF**			
Recording Data memory On-line	SRAM Card; options from 256 KB to 8 MB — Integrated data memory for 2200 data lines — RS 232 C Interface for external connection (download and remote control)			
Power supply Fully charged battery life	NiMH battery pack: 6.0 V; 1.1 Ah rechargeable, charging time with LG 20 one hour 3 days 1 week			
Operating temperature	-20 °C to +50 °C (-5 °F to +122 °F)			
Weight (instrument only)	3.5 kg (7.7 lb)	3.7 kg (8.2 lb)	3.2 kg (7.0 lb)	
Certified quality in accordance with DIN ISO 9001 / EN 29001. * D = Distance in meters				
Specifications and descriptions are subject to change without prior notice. $**B = Backsight, F = Foresight$				



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